

Proceedings
of the
Society
for
Experimental Biology and Medicine

INCLUDING THE FOLLOWING SECTIONS

CHAMPLAIN

DISTRICT OF COLUMBIA

NORTHWEST

OHIO VALLEY

SOUTHERN

SOUTHEASTERN

SOUTHWESTERN

October-December 1977 (inclusive)

VOLUME 154

New York

MINIPULS PERISTALTIC PUMPS

miniature pumps
with superior performance



- Continuous flow adjustment 1-1300 ml/hr.
- Digital speed control
- Tubing can be replaced while motor is running
- Very low pulsation

Available in 1-, 4-, 8- and 16-channel models
Call or write Dept. EBM

Gilson Medical Electronics, Inc.
BOX 27, MIDDLETON, WIS. 53562 • 608/836-1551

THE TACONIC FARMS MOUSE SCALE

EASY TO READ, CARRY AND USE



For weighing mice, diets and other
materials up to 40 grams

PRICE \$25.00 (Plus Postage)
Order directly from

TACONIC FARMS, INC.

Germantown, New York 12526
Phone (518) 537-6208

INDEX TO ADVERTISERS

Members and subscribers are requested to cooperate with our advertisers

Accurate Chemical	Cover 2
Charles River	Cover 4
Gilson Medical	v
Oxford University Press	i
Taconic Farms	v

Copyright © 1977 by the Society for Experimental Biology and Medicine
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form, or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

CONTENTS

SCIENTIFIC PROCEEDINGS, VOLUME 154

Six hundred sixty-seventh issue, January 1977	1
Six hundred sixty-eighth issue, February 1977	151
Six hundred sixty-ninth issue, March 1977	319
Six hundred seventieth issue, April 1977	483
Author Index	621

TABLE OF CONTENTS

BIOCHEMISTRY

Protein Kinase Activity of Isolated Rat Adipocytes as Related to Cell Size	M. DIGIROLAMO, J. L. OWENS, J. G. PATRICK, J. F. KUO	513
Apparent Stabilization of Rat Liver Lysosomes by Cytosol and Serum Proteins	B. E. BRENNER, J. S. BOND	517

ENDOCRINOLOGY

Milk and Plasma Glucocorticoid Alterations after Injections of Hydrocortisone and Adrenocorticotropin	F. C. GWAZDAUSKAS, M. J. PAAPE, M. L. MCGILLIARD	543
The Effects of Interruption of the Ventral Noradrenergic Pathway on the Proestrous Discharge of Prolactin in the Rat	P. LANGELIER, S. M. MCCANN	553
Effects of Intravenous Infusion of TRH on Plasma TSH and Prolactin Concentrations in Rats	C. A. BLAKE	558
Release of Growth Hormone by TRH in Intact Rats or in Intact or Hypophysectomized Rats bearing a Heterotopic Pituitary	A. E. PANERAI, G. L. ROSSI, D. COCCHI, I. GILAD, V. LOCATELLI, E. E. MÜLLER	573
The Influence of Age and Fasting on Serum Hormone in the Lean and Obese Zucker Rat	R. J. MARTIN, J. H. GAHAGAN	610

IMMUNOLOGY

An Altered Response to Cyclic AMP Stimulating Hormones in Intact Human Leukemic Lymphocytes	P. POLGAR, J. C. VERA, A. M. RUTENBURG	493
Ribonucleoside and Nucleotide Components of Normal Human Blood Lymphocytes and Platelets	S. H. PROSS, T. W. KLEIN, C. W. FISHEL	508

NUTRITION

Detection and Distribution of Intestinal Calcium-Binding Protein in the Young Adult Male Guinea Pig	M. W. CHAPMAN, A. N. TAYLOR, R. H. WASSERMAN, W. G. POND	546
Failure of Bran to Alter Diet-Induced Hyperlipidemia in the Rat	C. ARVANITAKIS, C. L. STAMNES, J. FOLSCROFT, P. BEYER	550

ONCOLOGY

Varying Effects of Deoxynucleosides on the Incorporation of Thymidine into the DNA of Monolayer and Suspension Cultures	S. WAXMAN, C. SCHREIBER	526
<i>In Vitro</i> and <i>In Vivo</i> Effects of Dimethylnitrosamine on Mouse Liver Mitochondrial Function	M. A. FRIEDMAN, K. M. WATT, E. S. HIGGINS	530

PATHOLOGICAL PHYSIOLOGY

Hepatic Catalase Is Not Essential for the Hypolipidemic Action of Peroxisome Proliferators	J. K. REDDY, D. E. MOODY, D. L. AZARNOFF, M. S. RAO	483
Studies of the Intestinal Absorption of Bovine Xanthine Oxidase	R. F. VOLP, G. L. LAGE	488

PHARMACOLOGY

The Absence of Tryptophan Hydroxylase Activity in Blood Platelets	J. J. MORRISSEY, M. N. WALKER, W. LOVENBERG	496
---	---	-----

Emetic and Hyperthermic Effects of Centrally Injected Methionine-Enkephalin in Cats	W. G. CLARK	540
Tolerance to the Effect of Morphine on Intestinal Transit	N. W. WEISBRODT, F. BADIAL-ACEVES, S. J. DUDRICK, T. F. BURKS, G. A. CASTRO	587

PHYSIOLOGY

Response of Left Ventricular Mechanoreceptors to Changes in Pressure and Muscle Length	R. V. PURTOCK, E. J. ZUPERKU, S. R. PETERS, R. L. COON, J. P. KAMPINE	500
Renal Response to Phosphaturic Agents in Acutely and Chronically Parathyroidectomized Rats	M. M. POPOVTZER	522
Lack of Caffeine Stimulation of Gastrin Release in Man	L. F. WRIGHT, R. G. GIBSON, B. I. HIRSCHOWITZ	538
The Effect of Sodium Depletion on the Renal Response to Short-Duration NH_4Cl Acid Loading	G. O. PEREZ, J. R. OSTER, C. A. VAAMONDE	562
Cyproheptadine Blockade of a Cardiogenic Hypertensive Chemoreflex	G. R. HAGEMAN, F. URTHALER, T. N. JAMES	578
Vasa Vasorum within the Media of Bovine Mesenteric Lymphatics	T. OHHASHI, S. FUKUSHIMA, T. AZUMA	582
Angiotensin II Increases Uterine Vascular Resistance in Pregnant and Nonpregnant Rabbits	D. M. COHEN, S. J. STEINBERGER, J. F. SWAN, J. DISALVO	597
Isoproterenol-Induced Diuresis in Turkeys	W. P. PALMORE, M. J. FREGLY, C. F. SIMPSON	602
High Gain Placental Cardiovascular Control	J. H. G. RANKIN, D. S. DHINDSA, J. METCALFE	606

TISSUE CULTURE

Chondrogenesis in Tissue Cultures of Muscle Under the Influence of a Diffusible Component of Bone Matrix	M. NAKAGAWA, M. R. URIST	568
--	--------------------------	-----

VIROLOGY

Elevated Expression of T-Antigen in Skin Fibroblasts from Individuals with Cytogenetic Anomalies Infected <i>in Vitro</i> with Simian or Human Papovaviruses	A. S. LUBINIECKI, J. COSTA, A. S. RABSON	505
Hydrophobicity of Neuraminidase-Treated Rabbit Interferon	D. K. H. JENG	534
Effect of SO_2 on the Pathogenesis of Viral Upper Respiratory Infection in Mice	K. UKAI	59
Immunomodulator-Induced Resistance Against Herpes Simplex Virus	P. S. MORAHAN, E. R. KERN, L. A. GLASGOW	61
AUTHOR INDEX FOR VOLUME 154		62
Subject Index for Volume 154 will appear in the December 1977 issue as part of a cumulative index for the year 1977.		